

EFFECT OF RAW MATERIAL AND PROCESSING-AID AGENTS ON RICE CRACKER QUALITIES



15 N. U. 2553

NATTHAKARN NAMMAKUNA

A Thesis Submitted to the Graduate School of Naresuan University
in Partial Fulfillment of the Requirements

For the Master of Science Degree in Food Science and Technology

May 2010

Copyright 2010 by Naresuan University

This thesis entitled "Effect of raw material and processing-aid agents on rice cracker qualities" submitted by Natthakarn Nammakuna in partial fulfillment of the requirements for the Master of Science Degree in Food Science and Technology in hereby approved.

Ovoose hugebali Chair
(Assistant Professor Orose Rugchati, Ph.D.)
(Assistant Professor Puntarika Ratanatriwong, Ph.D.)
(Assistant Professor Sajee Suwansri, Ph.D.)
(Assistant Professor Parita Thanasukarn, Ph.D.)
(Assistant Professor Natchanok Amornthewaphat, Ph.D.)

Approved & Pupatwiliul (Assistant Professor Kanungnit Pupatwibul, Ph.D.) Dean of the Graduate School

May 2010

ACKNOWLEDGEMENT

I would especially like to thank Assistant Professor Dr.Puntarika Ratanatriwong the advisor, for the always inspiration and invaluable guidances throughout the study. I am also grateful for consultants and helpful suggestions Assistant Professor Dr.Sajee Suwansri and Assistant Professor Dr.Parita Thanasukarn my co-advisors.

Furthermore, I am greatly thankful for financial supports from the Thailand Research Fund for TRF-Master Research Grants (MRG-WI055S077) and the 2009 Thailand Toray Science Foundation Grants as well as the In-kind supports from Sinn Salee Snack & Biscuit Ltd., Part. Bangkok, Thailand.

Graduate School, Naresuan University for supporting this thesis book making. Also special thanks to all laboratory staff in the Department of Agro-Industry, Faculty of Agriculture, Natural Resources and Environment, Naresuan University.

I would like to thank my friends in graduate class for kindness and encouragement, always.

Lastly, I would like to deeply thank my parents and my family, whom always inspire me to do in everything.

Natthakarn Nammakuna